

SEQUENCE OF OPERATIONS

1.0 START/STOP

- 1.1 THE FAN WILL BE STARTED/STOPPED WHEN SIGNALLED BY DDC CONTROLLER.
- 1.2 THE H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" SHALL ONLY BE USED FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-3 SHALL BE FULLY CLOSED. WHEN THE UNIT IN ON D-2 SHALL BE OPEN.
- 1.3 FREEZE STAT AND SMOKE DETECTORS SHALL BE WIRED TO REMAIN IN CIRCUIT W/STARTER IN "HAND" POSITION.

2.0 COOLING/HEATING

- 2.1 THE SPACE TEMPERATURE SENSORS WILL MODULATE THE MULTIZONE DAMPERS TO MAINTAIN SPACE TEMPERATURES SETPOINTS OF 74°F (ADJUSTABLE) FOR COOLING AND 70°F (ADJUSTABLE) FOR HEATING. WHEN ALL ZONES CALL FOR HEATING THE HOT WATER CONTROL VALVE WILL MODULATE TO MAINTAIN THE HOT DECK SUPPLY TEMPERATURE OF 105°F (ADJUSTABLE) AND THE CHILLED WATER VALVE SHALL REMAIN CLOSED CREATING A NEUTRAL DECK. WHEN ALL ZONES CALL FOR COOLING THE CHILLED WATER CONTROL VALVE WILL MODULATE TO MAINTAIN A COLD DECK TEMPERATURE OF 55°F (ADJUSTABLE) AND THE HOT WATER VALVE WILL CLOSE CREATING A NEUTRAL DECK. WHEN THERE ARE ZONES CALLING FOR HEATING AND COOLING SIMULTANEOUSLY THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN A COLD DECK TEMPERATURE OF 55°F (ADJUSTABLE) AND THE HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE LOWEST HOT DECK TEMPERATURE TO MAINTAIN HEATING SETPOINT IN THE CRITICAL ZONE.

3.0 FREEZE PROTECTION

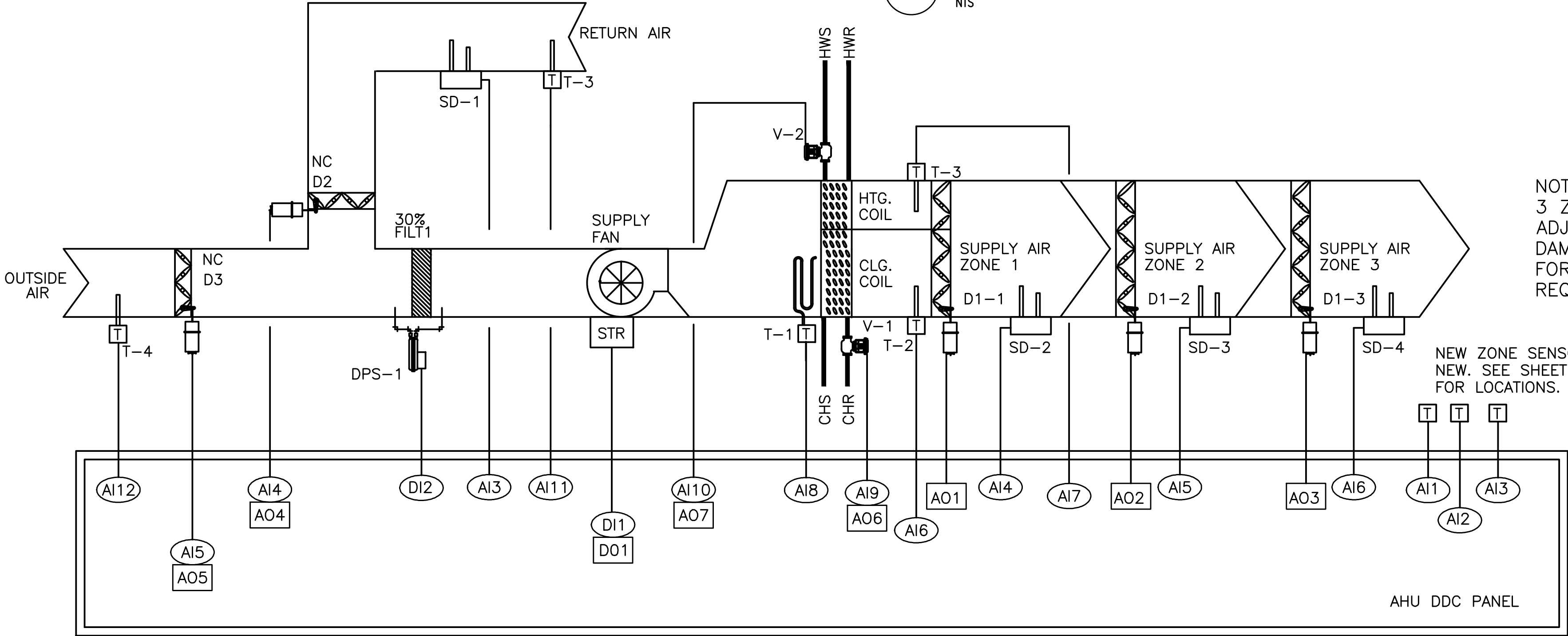
- 3.1 IF THE AIR TEMPERATURE AS SENSED BY T-1 FALLS BELOW 45°F, AN ALARM SIGNAL SHALL BE INDICATED AT THE DDC CONTROL PANEL. IF THE TEMPERATURE AT T-1 FALLS BELOW 40°F, THE UNIT SUPPLY FAN SHALL SHUT "OFF" AND A CRITICAL ALARM SHALL BE INDICATED AT THE DDC PANEL. CONTROL WIRING FROM THIS FREEZE STAT SHALL BE HARD WIRED IN CONDUIT TO THE SUPPLY AIR FAN STARTER.

4.0 AUTOMATIC SHUTDOWN/RESTART

- 4.1 WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, SD, THE SUPPLY FAN SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND RETURN DUCTS SHALL CLOSE.
- 4.2 SUPPLY FAN SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.

JOB: - BUILDING: VA SAMPLE POINTS LIST			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		PAGE:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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SYSTEM:  VAV AIR HANDLER			POINT ID	ABBREVIATION	PRIORITY/ALARM NO.	ELECTRIC START/STOP	ALTERNATE OPEN/CLOSE	SPEED COMMAND	DAMPER POSITION	ALARM	TEMPERATURE	HIGH HUMIDITY	LOW HUMIDITY	TEMPERATURE PRESSURE	POSITION (U)	PERCENT	CALC. PRESSURE	HUMID. MONITORING	VACUUM	Local Alarm Panel	Master Alarm Panel	High Alarm Panel	LOW LIMIT	SCHEDULE	START/STOP	FUNCTION	DUTY CYCLE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE	TE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POINTS LIST FOR VAV AIR HANDLING UNIT WITH  
MINIMUM OUTSIDE AIR



MULTIZONE AIR HANDLING UNIT CONTROL DIAGRAM

Revisions		Remarks
No.	Date	

Hernandez Consulting  
ALBERT ARCHITECTURE



Allen&Hoshall  
engineering since 1915

Approved:	
Title	Signature

MECHANICAL - CONTROLS	
Approved Service Engineer	
Approved Service Director	

Project Title Southeast VA Health Care System (SLVHCS) A&E Design Urgent Care	
Building Number	
Checked WLP	
Drawn WLP	
Location 1601 Perdido Street, New Orleans, LA	

Date January 18, 2013
Project No. VA256-C-0231
Drawn ML
M501
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